



**SAINT GEORGE  
SCHOOL**  
FOUNDED 1965



Porfirio Herrera No. 6, Ensanche Piantini.  
Santo Domingo, D. N. Rep. Dominicana

T. 809 562 5262 F. 809 562 5015  
[www.stgeorge.edu.do](http://www.stgeorge.edu.do)

## **MATHEMATICS, 1st FORM**

Teacher: Diana Gomez

Email: [digomez@saintgeorge.do](mailto:digomez@saintgeorge.do)

Academic year: 2011-2012

### **1. INTRODUCTION AND DESCRIPTION OF COURSE**

The emphasis in this standards-based seventh-grade course is on algebraic thinking and on extending the understanding of the real number system to include integers, rational numbers, and irrational numbers. Students will investigate applications of number theory and will acquire skills in adding, subtracting, multiplying, and dividing integers. Students will solve applied problems by using one-step equations and inequalities, percents, and proportional reasoning. Students will develop algebraic thinking by analyzing patterns to discover relationships, by representing information through symbolic, graphical, and tabular methods, and by identifying relationships that are linear. Throughout the course there is an emphasis on the process standards of problem-solving, communication, reasoning, representations, and connections.

### **2. SKILLS**

By the end of the course, students will be able to:

- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Apply conversions between fractions, decimals and percents to solve real world problems.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Draw, construct, and describe geometrical figures, describe the relationships between them, and compute perimeter, area, surface area and volume.
- Use random sampling to draw inferences about a population (statistics and probability).



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### **3. CONTENT**

- Algebraic Thinking, Decimals, and Data
- Fractions and Integers
- Algebra, Proportions, and Percents
- Geometry and Measurement
- Counting and Probability

### **4. TEXTBOOKS AND OTHER RESOURCES**

Math, Course 2, by Larson, Boswell, Kanold, and Stiff; McDougal Littell

\* These core texts do not make up the entirety of the printed resources to be used in the course. Other resources will include: [www.classzone.com](http://www.classzone.com) (choose middle school math and find additional resources).

\*Students are expected to have the following material for class: Notebook for class notes, notebook for homework, black pens, pencils, eraser, sharpener, geometry set (rulers, protractor, compass, etc.)

### **5. TEACHING STRATEGIES**

Students will benefit from a wide range of teaching approaches and strategies, including but not limited to: individual, pair and group work; a variety of written, oral activities; question and answer; small group and whole class discussion; independent and group research; debate; vocabulary crossword puzzles; math Jeopardy trivia game; collection of math puzzles and riddles; math games; math animated applets; math lesson media clips and PowerPoint presentations.

### **6. EVALUATIONS**

The students will receive a rubric (grid that lists criteria) explaining precisely how they will be evaluated for ALL assignments.

- Participation and work habits (10%)
- Homework (15%)
- Quizzes (15%)
- Class Work (35%) (Mini quizzes, performance tasks, formative tests)
- Tests and Group Projects (25%) (Test and major projects)



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## **7. OTHER REMARKS REGARDING OUR CLASS**

Be on time for class. Unexcused tardiness is not permitted.

Students must always be polite and respectful towards the teacher and peers. Do not make sarcastic, demeaning, or hurtful comments in or out of class. Offer constructive criticism in a respectful manner.

Expect homework on a daily basis.

Enrichment classes will be available upon student request.

It is student's responsibility to make up work after an absence. This includes reschedule quizzes, assignments due dates, and enrichment classes.

There will be minor assessments on a weekly basis and major assessments on a bi-weekly basis.